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<b>(21) International Application Number:</b> PCT/KR99/00699 <b>(22) International Filing Date:</b> 19 November 1999 (19.11.99)  <b>(30) Priority Data:</b> 1998/49663 19 November 1998 (19.11.98) KR  <b>(71) Applicants (for all designated States except US):</b> KOREA INSTITUTE OF SCIENCE AND TECHNOLOGY [KR/KR]; 39-1 Hawolgok-dong, Sungbuk-ku, Seoul 136-130 (KR). KOREA GREEN CROSS CORPORATION [KR/KR]; 227 Gugal-ri, Kiheung-eup, Yongin-si, Kyonggido 449-900 (KR).  <b>(72) Inventors; and</b> <b>(75) Inventors/Applicants (for US only):</b> HONG, Hyo, Jeong [KR/KR]; #15-401 Kit Apt., 237 Kajeong-dong, Eusong-ku, Taejon-si 305-350 (KR). RYU, Chun, Jeih [KR/KR]; #136-1203 Hanbit Apt., 99 Oeun-dong, Eusong-ku, Taejon-si 305-333 (KR). HUR, Hyangsuk [KR/KR]; #106-1508 Expo Apt., Jeonmin-dong, Eusong-ku, Taejon-si 305-390 (KR).  <b>(74) Agent:</b> LEE, Won-Hee; Suite 805, Sung-ji Heights II, 642-16 Yoksam-dong, Kangnam-ku, Seoul 135-080 (KR).		<b>(81) Designated States:</b> CA, JP, US, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).  <b>Published</b> <i>With international search report.</i> <i>With amended claims.</i>  <b>Date of publication of the amended claims:</b> 20 July 2000 (20.07.00)
<b>(54) Title:</b> HUMANIZED ANTIBODY SPECIFIC FOR SURFACE ANTIGEN PRE-S1 OF HBV AND PREPARATION METHOD THEREOF		
<b>(57) Abstract</b>  The present invention relates to humanized antibodies specific for HBV surface antigen pre-S1, which show binding affinity similar to mouse monoclonal antibody and which show remarkably reduced immunogenicity since they have less mouse-derived amino acid residues. Thus, the humanized antibodies of the present invention may be useful for the prevention of HBV infection and for the treatment of hepatitis B.		